

# Work Order ID 54410

December 9, 2009 7:24:48 AM



Page 1

Item ID: D412-742-013

Revision ID:

Item Name: Float Skidtube Installation

Start Date: 12/09/09 Start Qty: 1.00

Required Date: 12/11/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan:

QC:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

N/A

Rev D

100

0.00



DC

Document Control

DOCUMENT CONTROL

Memo

0.00

Photocopy bluefile and create labels per PPP D412-742-013 CHG006

Sort 12/11

for BG 09/12/09

110

Pick Kit

0.00



Packaging

Packaging

Memo

0.00

Pack 10

120

QC4- 100% Inspect kits for completeness

0.00



QC

Quality Control

Memo

0.00

Sort 12/11



# Work Order ID 54410

December 9, 2009 7:24:49 AM

Page 2

Item ID: D412-742-013

Accept

Revision ID:

Item Name: Float Skidtube Installation

Start Date: 12/09/09 Start Qty: 1.00

Required Date: 12/11/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

0.00



Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D412-742-013  
Location: H

140

0.00



QC

Quality Control

QC21- Final Inspection - Work Order Release

Memo

0.00

*Page 17*

*09/12/17*  
*W 09.12.15*

B52-786

# Picklist Print

December 9, 2009 7:24:09 AM

Page 1

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation



Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D412-742-043 		Manufactured	No			110	Each	0.0000	1.0000			
Replacement Float Skidtube D2571 		Manufactured	No			110	Each	29.0000	1.0000			
Saddle, Fwd Out 205												

52746

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

22

11644

1

43564

4

47564

7

52910

10

Main Warehouse

ST433

7

51520

1

51924

6

110

Each

27.0000

1.0000

51520

12/9/24/10

D2572



Saddle, Fwd In 205

Manufactured

No

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

27

43565

4

51521

7

51904

6

52908

10

51521

# Picklist Print

December 9, 2009 7:24:09 AM

Page 2

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2573		Manufactured	No			110	Each	40.0000	1.0000			

Saddle, Aft Out 205

Warehouse      Loc Qty      Loc Code  
Location

Main Warehouse

ST      12

43566      4

44206      1

47566      7

Main Warehouse

ST434      28

51522      13

52328      7

52911      8

Saddle, Aft In 205

Manufactured      No

110      Each

12.0000

1.0000

Warehouse      Loc Qty      Loc Code  
Location

Main Warehouse

ST      3

43567      3

Main Warehouse

ST434      9

52905      9

December 9, 2009 7:24:09 AM

Shop Packet Print

Page 2

# Picklist Print

December 9, 2009 7:24:09 AM

Page 3

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation




Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S D2876  Saddle Spacer		Manufactured	No			110	Each	187.0000	2.0000 	-		

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    140

42364    140

42364

Main Warehouse

ST051    47

51540    47

S D2877  
  
Saddle Spacer

Manufactured      No

110      Each      118.0000      2.0000  


✓



Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    118

46518    1

47292    80

51541    37

47292

December 9, 2009 7:24:09 AM

Shop Packet Print

Page 3

# Picklist Print

December 9, 2009 7:24:10 AM

Page 4

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3403-1  Bushing		Manufactured	No			110	Each	189.0000	6.0000			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST                                      189

41709                                  84

44368                                  16

54237                                  89

Manufactured      No                                      110                      Each                      289.0000      4.0000

Warehouse                      Loc Qty                      Loc Code  
Location


Main Warehouse

ST                                      289

39224                                  4

43855                                  85

51921                                  200

D2747  
  
Set Screw

December 9, 2009 7:24:10 AM

Shop Packet Print

Page 4

# Picklist Print

December 9, 2009 7:24:10 AM

Page 5

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3533-1 Set Screw		Manufactured	No			110	Each	206.0000	2.0000			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST                      206  
47625                      6  
51602                      200

Purchased

No

110

Each

802.0000

16.0000

Warehouse                      Loc Qty                      Loc Code  
Location

OFFSHORE

FG                      4  
103344                      4

Main Warehouse

ST                      798  
111295                      0  
111724                      2  
112759                      96  
112794                      200  
113121                      500

AN4C6A

Bolt

December 9, 2009 7:24:10 AM

Shop Packet Print

Page 5

# Picklist Print

December 9, 2009 7:24:11 AM

Page 6

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation



Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00


Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN4C52A  BOLT		Purchased	No			110	Each	240.0000	8.0000 ✓			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST	240	
103914	19	
112543	71	
112641	50	
113121	100	

M112543

AN6C12A  BOLT		Purchased	No			110	Each	155.0000	8.0000 ✓			
---	--	-----------	----	--	--	-----	------	----------	----------	--	--	--

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST	155	
104289	1	
110396	154	

M110396

*PC 4/12/10 (1)*

December 9, 2009 7:24:11 AM

Shop Packet Print

Page 6



# Picklist Print

December 9, 2009 7:24:11 AM

Page 7

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3672-3  Phenolic Washer		Manufactured	No			110	Each	396.0000	32.0000			

*[Handwritten signature]*

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    8

34471    8

Main Warehouse

ST117    388

51596    388

51596

AN960C416L

Purchased                      No

110                      Each                      1,706.0000

32.0000



WASHER

*12/12/10 ①*

Warehouse                      Loc Qty                      Loc Code  
Location

OFFSHORE

FG    44

104925    44

Main Warehouse

ST    1662

111916    2

112612    760

112794    500

112828    400

11/26/12

December 9, 2009 7:24:11 AM

Shop Packet Print

Page 7

# Picklist Print

December 9, 2009 7:24:25 AM

Page 8

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3672-9  Phenolic Washer		Manufactured	No			110	Each	547.0000	8.0000			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    547

35523    547

110                      Each                      304.0000

8.0000

35523

AN960C616L

Purchased

No



WASHER

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    304

107242    2

110382    52

111424    50

113064    200

110                      Each                      135.0000

16.0000

1110382

D3672-11

Manufactured

No



Phenolic Washer

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    135

35524    135

35524

December 9, 2009 7:24:25 AM

Shop Packet Print

Page 8

# Picklist Print

December 9, 2009 7:24:25 AM

Page 9

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21043-4		Purchased	No			110	Each	955.0000	29.0000			



Nut

Warehouse Location	Loc Qty	Loc Code
OFFSHORE		
FG	40	
104603	40	
Main Warehouse		
ST	915	
112243	2	
112314	113	
112492	300	
113064	500	

D3403-3

Manufactured No



Bushing

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST	72	
44369	12	
52900	60	

December 9, 2009 7:24:25 AM

Shop Packet Print

Page 9

# Picklist Print

December 9, 2009 7:24:26 AM

Page 10

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation



Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S D3405-041  Lug Assembly		Manufactured	No			110	Each	39.0000	1.0000 	✓		

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    29

53887    29

Main Warehouse

ST474    10

52323    10

S D3405-043  Lug Assembly		Manufactured	No			110	Each	12.0000	1.0000 	✓		
--	--	--------------	----	--	--	-----	------	---------	---	---	--	--

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST    12

46589    1

46863    1

52324    10

December 9, 2009 7:24:26 AM

Shop Packet Print

Page 10

# Picklist Print

December 9, 2009 7:24:31 AM

Page 11

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN4C47A		Purchased	No			110	Each	186.0000	4.0000			



Bolt

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	186	
112489	2	
112641	31	
112816	3	
113164	50	
113302	100	

D3407-041



Tow Ring

Manufactured No

110 Each 27.0000



Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG	3	
35780	3	

Main Warehouse

ST	9	
48356	1	
50755	2	
53884	6	

Main Warehouse

ST464	15	
53688	7	
54092	8	

December 9, 2009 7:24:31 AM

Shop Packet Print

Page 11

# Picklist Print

December 9, 2009 7:24:31 AM

Page 12

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3417-3 Washer		Manufactured	No			110	Each	121.0000	2.0000			

Warehouse                      Loc Qty                      Loc Code  
Location

Main Warehouse

ST	121	
42176	10	
44349	30	
51648	28	
53182	53	

42176

D3456-1

Manufactured No

110

Each

75.0000

1.0000

Warehouse                      Loc Qty                      Loc Code  
Location

OFFSHORE

FG	7	
25701	7	

Main Warehouse

ST	68	
51653	68	

51653

PC-9/12/10 (1)

December 9, 2009 7:24:31 AM

Shop Packet Print

Page 12

# Picklist Print

December 9, 2009 7:24:37 AM

Page 13

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C37A		Purchased	No			110	Each	113.0000	1.0000			

BOLT

Warehouse  
Location

Loc Qty

Loc Code

Main Warehouse

ST

113

111976

13

112454

100

110

Each

95.0000

1.0000

11/11/976

AN3C40A

BOLT

Purchased

No

Warehouse  
Location

Loc Qty

Loc Code

Main Warehouse

ST

95

106169

5

106176

40

112454

50

11/06/176

December 9, 2009 7:24:37 AM

Shop Packet Print

Page 13

# Picklist Print

December 9, 2009 7:24:37 AM

Page 14

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C41A  BOLT		Purchased	No			110	Each	182.0000	1.0000			

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG

4

103324

4

Main Warehouse

ST

178

112431

78

112829

100

M12431

AN3C42A

Purchased

No

110

Each

144.0000

1.0000

BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

144

106169

44

106176

100

M106169

December 9, 2009 7:24:37 AM

Shop Packet Print

Page 14



# Picklist Print

December 9, 2009 7:24:42 AM

Page 15

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation


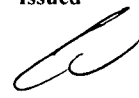
Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C43A  BOLT		Purchased	No			110	Each	83.0000	4.0000			

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 83

106227 2

106228 35

107457 46

AN3C46A  BOLT	Purchased	No				110	Each	161.0000	5.0000			
--	-----------	----	--	--	--	-----	------	----------	--------	--	---	--

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 161

106169 5

106176 9

111918 47

113164 50

113302 50

December 9, 2009 7:24:42 AM

Shop Packet Print

Page 15

# Picklist Print

December 9, 2009 7:24:42 AM

Page 16

Work Order ID: 54410

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 12/09/09

Required Date: 12/11/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960C10L		Purchased	No			110	Each	1,060.000	26.0000			

5   
washer

*[Handwritten signature]*

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG 100

103585 100

Main Warehouse

ST 960

112116 428

112612 160

112933 372

*12/11/06*

6 MS21043-3 Purchased

No

110

Each

4,686.000 13.0000

  
Nut

*12/12/10 (1)*

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG 80

103691 80

Main Warehouse

ST 4606

111819 78

112243 39

112314 4489

*12/23/14*

December 9, 2009 7:24:42 AM

Shop Packet Print

Page 16

# REFERENCE ONLY

DART AEROSPACE USA, INC.

IIN-D412-742

Page 18 of 20

## 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*12	*AN3C6A	*BOLT
4		*8	*AN3C7A	*BOLT
5		*44	*AN960C10L	*WASHER
21A		*1	*D3564-1	*WEARSHOE (REPLACES D3460-1)
21B		*1	*D3566-1	*GASKET
22A		*1	*D3564-3	*WEARSHOE (REPLACES D3460-3)
22B		*1	*D3566-1	*GASKET
23A		*1	*D3564-5	*WEARSHOE (REPLACES D2577-5)
23B		*1	*D3566-5	*GASKET
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
12B		**2	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24A		**1	**D3564-13	**WEARSHOE
24B		**1	**D3566-13	**GASKET
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25A		**1	*D3537-1	**WEARPAD
25B		**1	*D3553-1	**GASKET
26A		**1	*D3537-7	**WEARPAD
26B		**1	*D3553-3	**GASKET
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**12	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 19)

54410

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Revision: D

Date: 07.10.04

# REFERENCE ONLY

DART AEROSPACE USA, INC.

IIN-D412-742

Page 19 of 20

(CONTINUED FROM PAGE 18)

Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46	16		D3403-1	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49	8		AN4C52A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	16		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		ANC47A	BOLT
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C46A	BOLT
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

\*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

\*\*DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

54410

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Revision: D

Date: 07.10.04

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

REF. FAA STC: SR01583SE

REF. CANADIAN STC: SH05-37

REF. EASA STC: EASA.IM.R.S.01126

**REFERENCE ONLY**

## INSTRUCTIONS:

- 1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

### 5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

### 32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

**IS:**

63	4			AN4C47A	BOLT
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**WAS:**

63	4			AN4C46A	BOLT
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### 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

### 32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

**IS:**

63	4		AN4C47A	BOLT
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**WAS:**

63	4		AN4C46A	BOLT
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A	NEW ISSUE	AJS	08.12.19
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	<b>DART AEROSPACE USA, INC</b> PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED	J	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9441	SHEET 1 OF 1
APPROVED	W	TITLE	SCALE
DE APPR.	W	BOLT CHANGE	NTS
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